

Pulling and Removing an Image

```
Microsoft Windows [Version 10.0.19041.928]
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C:\Users\kaysagun>cd Desktop\CoE_197\ME8_Containerization_and_Docker

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker pull ubuntu:16.04
Error response from daemon: Get https://registry-1.docker.io/v2/: net/http: request canceled while waiting for connection (Client.Timeout exceeded while awaiting headers)
```

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
92473f7ef455: Pull complete
fb52bde78123: Pull complete
64788f86be3f: Pull complete
33f6d5f2e001: Pull complete
Digest: sha256:eed7e1076bbcf342c4474c718e5438af4784f59a4e88ad687dbb98483b59ee4
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcdc5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        16.04     aefd7f02ae24   2 weeks ago    134MB
ubuntu        16.10     7d3f705d307c   3 years ago    107MB

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker rmi ubuntu:16.10
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        16.04     aefd7f02ae24   2 weeks ago    134MB

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        16.04     aefd7f02ae24   2 weeks ago    134MB
```

Running containers

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker run ubuntu:16.04 /bin/echo 'Hello world!'
'Hello world!'
```

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
e924b24077ac   ubuntu:16.04   "/bin/echo 'Hello wo..."   About a minute ago   Exited (0) About a minute ago   quizzical_mestorf
```

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker run ubuntu:16.04 /bin/bash

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
b5f0e336583d   ubuntu:16.04   "/bin/bash"   3 minutes ago   Exited (0) About a minute ago   naughty_khayyam
e924b24077ac   ubuntu:16.04   "/bin/echo 'Hello wo..."   42 minutes ago   Exited (0) 41 minutes ago   quizzical_mestorf
```

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker run -it ubuntu:16.04 /bin/bash
root@40897f9178e1:/# pwd
/
root@40897f9178e1:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys usr var
root@40897f9178e1:/# exit
exit
```

Detaching, reattaching, and stopping containers

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker run -d ubuntu:16.04 /bin/sleep 3600
e0c39222eeb672ef0aad5dfb347a09861d21e46c6478ef2ac10340a55cc96711

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
e0c39222eeb6   ubuntu:16.04   "/bin/sleep 3600"       28 seconds ago   Up 19 seconds   ecstatic_mclean

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker exec -it e0c /bin/bash
root@e0c39222eeb6:/# ps aux
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root           1  0.6  0.0  4372   648 ?        Ss   13:03   0:00 /bin/sleep 3600
root           8  6.2  0.1 18232  3388 pts/0    Ss   13:05   0:00 /bin/bash
root          19 47.0  0.0  34420  2768 pts/0    R+   13:05   0:00 ps aux
root@e0c39222eeb6:/# exit
exit

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
e0c39222eeb6   ubuntu:16.04   "/bin/sleep 3600"       2 minutes ago   Up 2 minutes   ecstatic_mclean

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker stop e0c
e0c
```

Removing containers

(For some reason, the command 'docker rm \$(docker ps -a -q)' doesn't work to remove all containers)

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
e0c39222eeb6   ubuntu:16.04   "/bin/sleep 3600"       3 minutes ago   Exited (137) 13 seconds ago   ecstatic_mclean
40897f9178e1   ubuntu:16.04   "/bin/bash"             7 minutes ago   Exited (0) 7 minutes ago     wizardly_kowalevski
b5f0e336583d   ubuntu:16.04   "/bin/bash"             41 minutes ago   Exited (0) 38 minutes ago     naughty_khayyam
e924b24077ac   ubuntu:16.04   "/bin/echo 'Hello wo..." About an hour ago   Exited (0) About an hour ago   quizzical_mestorf

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker rm e0c
e0c

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
40897f9178e1   ubuntu:16.04   "/bin/bash"             10 minutes ago   Exited (0) 9 minutes ago     wizardly_kowalevski
b5f0e336583d   ubuntu:16.04   "/bin/bash"             43 minutes ago   Exited (0) 41 minutes ago     naughty_khayyam
e924b24077ac   ubuntu:16.04   "/bin/echo 'Hello wo..." About an hour ago   Exited (0) About an hour ago   quizzical_mestorf

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker rm $(docker ps -a -q)
unknown shorthand flag: 'a' in -a
See 'docker rm --help'.

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker rm 408
408

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker rm b5f
b5f

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker rm e92
e92

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
'Hello and goodbye!'

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
```